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# NOTICE OF ALLOWANCE AND FEE(S) DUE

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314

EXAMINER

STULII, VERA

ART UNIT PAPER NUMBER

1781

DATE MAILED: 12/02/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,063	01/11/2007	Syuuichi Ishii	284371US0PCT	3928

TITLE OF INVENTION: SPARKLING ALCOHOLIC BEVERAGE AND PROCESS FOR PRODUCING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1740	\$300	\$0	\$2040	03/02/2012

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

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1940 DUKE STREET

ALEXANDRIA, VA 22314

LEXANDRIA, VA 22314

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/564.063 01/11/2007 Syuuichi Ishii 284371US0PCT 3928 TITLE OF INVENTION: SPARKLING ALCOHOLIC BEVERAGE AND PROCESS FOR PRODUCING THE SAME DATE DUE ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE APPLN, TYPE SMALL ENTITY NO \$1740 \$300 \$0 \$2040 03/02/2012 nonprovisional **EXAMINER** ART UNIT CLASS-SUBCLASS STULII, VERA 1781 426-016000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. ☐ Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_ (enclose an extra copy of this for Advance Order - # of Copies \_ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and an apparation. Community is governed by 53 0.3.C. 122 and 57 CFR 1.14. Inis collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/564,063	01/11/2007	Syuuichi Ishii	284371US0PCT	3928	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER		
			STULII, VERA		
			ART UNIT	PAPER NUMBER	
			1781		

DATE MAILED: 12/02/2011

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 858 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 858 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## **Privacy Act Statement**

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No.	Applicant(s)	
	10/564,063	ISHII ET AL.	
Notice of Allowability	Examiner	Art Unit	
	VERA STULII	1781	
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 06/21/2011.  2. An election was made by the applicant in response to a responsive requirement and election have been incorporated into this 3. The allowed claim(s) is/are 1-8.  4. Acknowledgment is made of a claim for foreign priority under a) In Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:	ears on the cover sheet water (OR REMAINS) CLOSED or other appropriate comming the comming that it is application in the comming that is and MPEP 1308.  The comming that is a	rith the correspondence addrain this application. If not include nunication will be mailed in due subject to withdrawal from issue the during the interview on	ed course. THIS e at the initiative
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. □ A SUBSTITUTE OATH OR DECLARATION must be submi	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath o		31102 01
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") mus</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> </ol>		www. DTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		w (TTO-940) attached	
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date		or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of E attached Examiner's comment regarding REQUIREMENT FO</li> </ol>			
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☐ Information Disclosure Statements (PTO/SB/08),</li></ul>	6. ⊠ Interview 9 Paper No 7. ⊠ Examiner's	nformal Patent Application Summary (PTO-413), ./Mail Date <u>08/11/2011</u> . s Amendment/Comment s Statement of Reasons for Allo	owance
/Vera Stulii/ Examiner, Art Unit 1781			

### **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Thomas Cunningham on August 11, 2011.

# The application has been amended as follows:

Claims 2, 3 and 4 have been **amended** and claims 18, 19 and 20 have been **cancelled** by Examiner's amendment.

### Please amend claim 2 as follows:

- 2. A method for producing an alcoholic beverage with foaming properties comprising:
- (a) preparing a pre-fermentation liquid using a syrup containing sources of carbon, sources of nitrogen, hops, a coloring matter and water as raw materials,
- (b) fermenting said pre-fermentation liquid with a brewers' yeast to obtain an alcoholic beverage with foaming properties,
  - (c) filtering said alcoholic beverage with foaming properties after fermenting,

wherein a pea protein is added during (a) to the pre-fermentation liquid and (b) to the alcoholic beverage or between (a) and (b) to the pre-fermentation liquid and (b) and (c) to the alcoholic beverage;

wherein said pea protein is from green peas of the species *Pisum Sativum L* and wherein said alcoholic beverage has a higher NIBEM value than a beverage made by an otherwise identical process that does not add green pea protein.

#### Please amend claim 3 as follows:

3. A method for producing an alcoholic beverage with foaming properties by fermenting a pre-fermentation liquid,

wherein a pea protein is added to said pre-fermentation liquid;

wherein said pea protein is from green peas of the species *Pisum Sativum L* and wherein said alcoholic beverage has a higher NIBEM value than a beverage made by an otherwise identical process that does not add green pea protein.

#### Please amend claim 4 as follows:

4. A method for producing an alcoholic beverage with foaming properties by fermenting a pre-fermentation liquid created from mashed raw materials containing malts,

wherein a pea protein is added to said pre-fermentation liquid;
wherein said pea protein is from green peas of the species *Pisum Sativum L* and

wherein said alcoholic beverage has a higher NIBEM value than a beverage made by an otherwise identical process that does not add green pea protein.

Please cancel claims 18, 19 and 20.

### **EXAMINER'S REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

The invention as claimed recites the method for producing an alcoholic beverage with foaming properties by fermenting a pre-fermentation liquid and adding pea protein from green peas of species *Pisum Sativum L*. The alcoholic beverage has higher NIBEM value than a beverage made by identical process that does not add green pea protein. The NIBEM value is an index value which generally evaluates the foam stability of alcoholic beverages with foaming properties, such as beer and low-malt beer.

The closest prior art of record Bavisotto et al (US 3,720,517) discloses preparation of an alcoholic beverage by forming a malt-based liquid containing a fermentable carbohydrate from one or more sources; a food grade material having a high soluble protein or amino acid content; malt and hops or hop extract (Col. 1 lines 35-40). In regard to the preferred food grade material having a high soluble protein or amino acid content, Bavisotto et al discloses material derived from soy beans, such as soya flakes (Col. 2 lines 11-12). Bavisotto et al does not teach that proteins are derived from peas. Other prior art reference to Boni et al (EP 962522) was introduced to modify the disclosure of Bavisotto et al and to incorporate pea protein into the production of

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Art Unit: 1781

beverage as discloses by Bavisotto et al. Boni was relied upon as a teaching of using proteins in the beer production and the fact that such proteins could be obtained from various vegetable material such as peas, beans, grains, etc. Hence, Boni does not suggest selecting pea protein as opposed to another protein such as soybean protein or recognize that such a selection would enhance foaming properties of an alcoholic beverage as shown by the experimental data in the specification. Boni does not provide motivation for selecting pea protein instead of some other kind of protein. Further in this regard, it is noted that Applicants had shown that adding green pea protein during the production of the fermented alcoholic beverage as recited, significantly increases (i.e. almost triples) foam production as indicated by NIBEM value. None of the primary references cited in the obviousness rejections --Hsu, Oono or Bavisotto - disclose adding green pea protein during the beverage production. As stated above, Boni, et al. describes pea protein for use in clarifying beverages, but not for increasing their foaming properties. Boni, paragraphs [0015] and [0016], also describes other kinds of legume or cereal proteins, including soybean ("soja") protein, but is silent about whether any of these would significantly enhance the foaming properties of an alcoholic beverage. As shown in the present specification, soybean protein does not provide the same enhancement of NIBEM values compared to pea protein. Boni does not recognize the superior ability of pea protein to enhance foaming properties of an alcoholic beverage and does not provide motivation for selecting pea protein instead of some other kind of protein for any reason. Therefore, it would not be obvious to select the green pea protein as a protein source in the production of the fermented alcoholic

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beverage, when the use of such protein leads to increased NIBEM value and superior foaming properties of the beverage.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VERA STULII whose telephone number is (571)272-3221. The examiner can normally be reached on 7:00 am-3:30 pm, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Tarazano can be reached on (571) 272-1515. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Vera Stulii/ Examiner, Art Unit 1781